

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- ✓ 1. (Currently Amended) A modified transportable byte code execution environment comprising:  
a substantially unmodified transportable byte code virtual machine;  
a set of substantially unmodified base classes;  
one or more overlays to the set of substantially unmodified base classes, the one or more overlays enabling corresponding base classes to support shared access by one or more substantially unmodified transportable byte code applications;  
an unmodified primordial class loader for loading the system base classes as overlaid by the one or more overlays to the base classes;  
a security manager supporting multiple applications and for limiting access to system resources according to user permissions, wherein the multiple applications also have their own security management policies; and  
an a dynamic class loader generator for creating a class loader for loading an application, the application classes and creating a thread group for the application.
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2. (Previously Presented) The modified transportable byte code execution environment of claim 1, wherein the application includes at least one of an application class loader and an application security manager.
3. (Previously Presented) The modified transportable byte code execution environment of claim 1, wherein the one or more overlays include overlays to file classes to limit access to system resources according to user permissions associated with the application.
4. (Cancelled)

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Amtd. dated April 5, 2004  
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5. (Previously Presented) The modified transportable byte code execution environment of claim 1, wherein the application includes one or more invocations of Abstract Window Toolkit (AWT) classes.

6. (Previously Presented) The modified transportable byte code execution environment of claim 1, wherein the one or more overlays support determining a calling application.

7. (Previously Presented) The modified transportable byte code execution environment of claim 6, wherein the determining a calling application comprises identifying the class loader of a calling method, and using the class loader to identify the application.  
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8. (Previously Presented) The modified transportable byte code execution environment of claim 6, wherein the determining a calling application comprises identifying the thread group for a calling method, and using the thread group to identify the application.

9. (Currently Amended) A method of supporting a number of applications in a single transportable byte code execution environment, the method comprising:

means for generating a class loader for each of the applications in the number of applications, the class loader providing a name space for each application, and a thread group for each application;

means for overlaying one or more substantially unmodified base classes to support the number of applications; and

means for determining a calling application for a method; and

means for limiting access by the number of applications to system resources according to user permissions, wherein the number of applications also have their own security management policies.

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10. (Original) The method of claim 9, wherein at least one of the number of applications includes an application class loader.

11. (Original) The method of claim 9, wherein at least one of the number of applications includes an application security manager.

12. (Currently Amended) A computer data signal embodied in a carrier wave comprising:  
a computer program for supporting a number of substantially unmodified transportable

byte code applications on a substantially unmodified transportable byte code virtual machine, the transportable byte code virtual machine including a set of substantially unmodified base classes and a substantially unmodified primordial class loader, the program comprising:

a first set of instructions for generating a class loader for each of the transportable

byte code applications in the number of substantially unmodified

transportable byte code applications, the class loader providing a name space for each application, and a thread group for each application, the first set of instructions further associating a user with each application;

a second set of instructions for overlaying one or more substantially unmodified

base classes to support the number of applications; and

a third set of instructions for determining a calling application for a method; and

a fourth set of instructions for limiting access to a system resource by an

application according to whether the user associated with the application

has access to the system resource, wherein the application also has its own  
security management policies.

13. (Cancelled)